In the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A hip prosthesis, comprising a shaft [[(1)]] which is configured to be anchored in [[the]] <u>a</u> medullary canal of [[the]] <u>a</u> femur and [[whose]] <u>has a</u> distal portion [[(7),]] which is <u>configured</u> to be anchored in [[the]] <u>a</u> diaphysis,

[[has]] the shaft having a core cross-section [[(12)]] which tapers toward [[the]] a distal end and which , at least on the lateral side (19) and the medial side (20), has longitudinal ribs [[(16)]] on a lateral side (19) and a medial side whose height increases from a proximal portion of the shaft to a distal end portion of the shaft, characterized in that

the shaft core cross-section at a distance of 1 cm from the distal end (11) is portion being substantially rectangular, with an axis ratio of at least [[1:5]] 1:4, and, at least near [[its]] a distal end, [[has]] having a rib [[(21)]] on each of its two lateral edges, the height of which [[rib]] is on average under 2 mm, the boundary of the shaft core cross-section between the two ribs (21) located on the lateral edges not protruding further laterally from the prosthesis than these the two ribs located on the lateral edges.

- 2. (Currently Amended) The prosthesis as claimed in claim 1, eharacterized in that wherein a rib provided between the two ribs [[(21)]] located on the lateral edges that protrudes from the prosthesis by not more than 2 mm further laterally than these the two ribs located on the lateral edges.
- 3. (Currently Amended) The prosthesis as claimed in claim 1 or 2, characterized in that further comprising a rib is [[also]] provided on each of the medial edges.
- 4. (Currently Amended) The prosthesis as claimed in one of claims 1 through 3 claim 1 or 2, characterized in that wherein a rib provided between a rib [[(21)]] provided on the lateral edge and a rib located on the medial edge protrudes not more than 2 mm in [[the]] a ventral or dorsal direction from the prosthesis than the ribs arranged on the lateral and medial edges.
 - 5. (Currently Amended) The prosthesis as claimed in one of claims 1 through 4 claim 1

- or 2, characterized in that the wherein a shaft core cross-section at the proximal end [[(9)]] is substantially rectangular[[,]] with an axis ratio of at least [[1:4]] 1:5.
- 6. (Currently Amended) The prosthesis as claimed in one of claims 1 through 5 claim 1 or 2, characterized in that the ribs are made rough have roughened surfaces.
- 7. (Currently Amended) The prosthesis as claimed in one of claims 1 through 6 claim 1 or 2, characterized in that the wherein a tapering of the core cross-section along a length of at least 4 cm is on average at least 8 mm²/cm of length, preferably over 10 mm²/cm of length.
- 8. (Currently Amended) The prosthesis as claimed in one of claims 1-through 7 claim 1 or 2, characterized in that the wherein a reduction in [[the]] cross-sectional dimension in the LM a latero-medial direction of the distal shaft portion [[(7)]] along a length of at least 4 cm of the distal shaft portion is on average at least 0.5 mm/cm of length, preferably more than 0.8 mm/cm of length.
- 9. (Currently Amended) The prosthesis as claimed in one of claims 1 through 8 claim 1 or 2, characterized in that wherein the rib height increases from the proximal end [[(9)]] of the distal portion [[(7)]] to [[its]] the distal end [[(11)]] of the distal portion from less than 0.5 mm to 0.5 to 1.5 mm.
- 10. (New) The prosthesis as claimed in claim 7, wherein a tapering of the core cross-section along a length of at least 4 cm is on average over 10 mm²/cm of length.
- 11. (New) The prosthesis as claimed in claim 8, wherein a reduction in cross-sectional dimension in a latero-medial direction of the distal shaft portion along a length of at least 4 cm of the distal shaft portion is on average more than 0.8 mm/cm of length.